

Appendix t Third Supplemental Amendment

14. (Amended) A method according to claim [9] 75, wherein [said enzyme possessing substantial 3'-5' exonuclease activity] the first DNA polymerase is selected from the group consisting of [Pfu] Pyrococcus furiosus DNA polymerase, [E. coli] Escherichia coli DNA polymerase I, Klenow fragment, T-4 polymerase, T-7 polymerase, Vent polymerase, and Deep Vent polymerase.

15. (Amended) A method according to claim [11] 76, wherein [said enzyme possessing substantial 3'-5' exonuclease activity] the first DNA polymerase is selected from the group consisting of [Pfu] Pyrococcus furiosus DNA polymerase, Vent polymerase, and Deep Vent polymerase.

35. (Twice Amended) A method of amplifying a polynucleotide sequence, said method comprising[: the steps of] mixing a composition[,] with a synthesis primer[,] and a synthesis template, said composition comprising

- (a) a first DNA polymerase possessing 3'-5' exonuclease activity, and
- (b) a second DNA polymerase, wherein said second polymerase substantially lacks 3'-5' exonuclease activity.

75. (Twice Amended) A method of synthesizing a polynucleotide sequence, said method comprising[: the steps of] mixing a composition[,] with a synthesis primer[,] and a synthesis template, said composition comprising

- (a) a first DNA polymerase possessing 3'-5' exonuclease activity, and
- (b) a second DNA polymerase, wherein said second polymerase substantially lacks 3'-5' exonuclease activity.